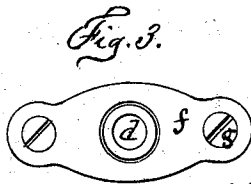
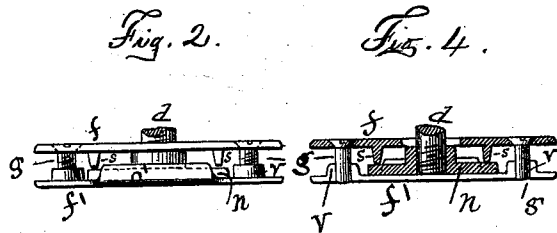
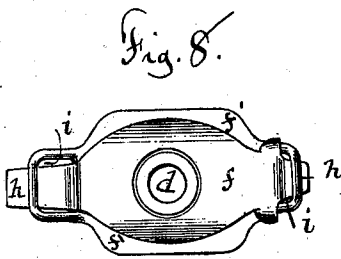
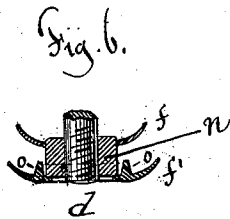
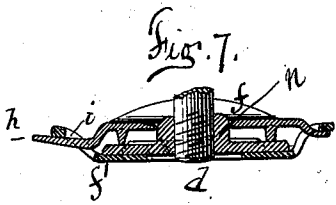
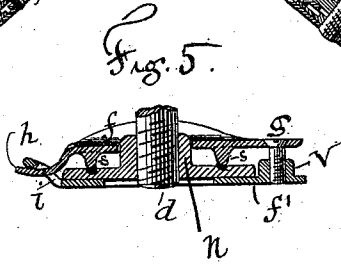
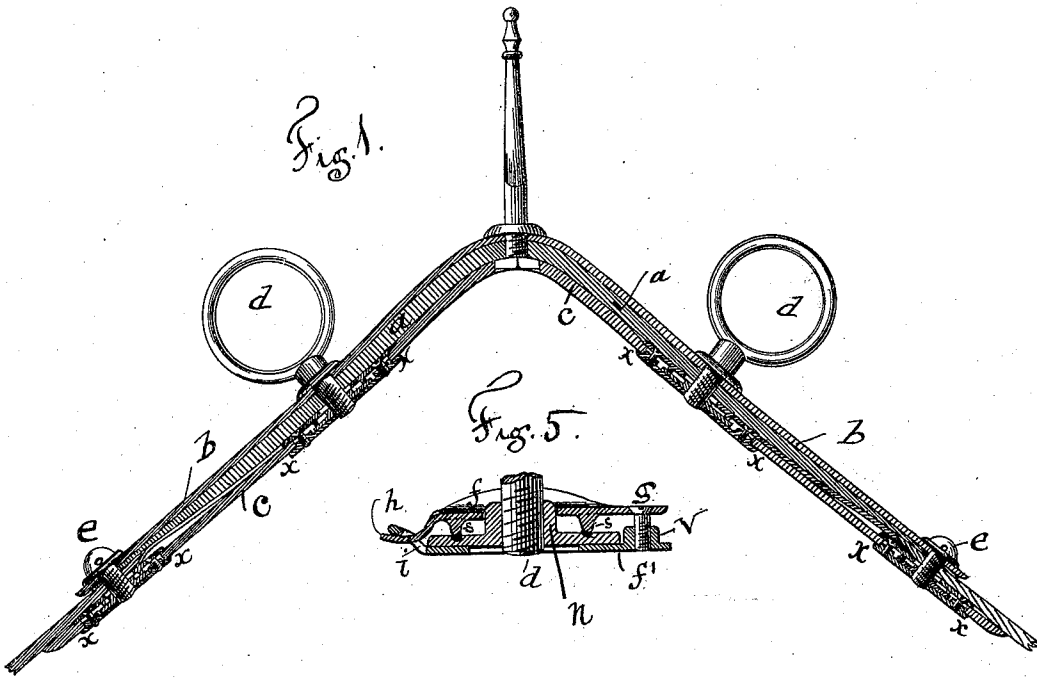


N. TEAS.
HARNESS.

No. 173,372.

Patented Feb. 8, 1876.



Witnesses:
John Fahrer
Isaac Freeman

Noble Teas,
by attys,
Clayton Bros.

UNITED STATES PATENT OFFICE

NOBLE TEAS, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN HARNESS.

Specification forming part of Letters Patent No. **173,372**, dated February 8, 1876; application filed November 16, 1875.

To all whom it may concern:

Be it known that I, NOBLE TEAS, of the city of Newark, in the State of New Jersey, have invented certain new and useful Improvements in the Devices for Changing the Mountings of Harness-Pads; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings forming a part of this specification.

In the drawings, Figure 1 is a longitudinal vertical section through a harness-pad, showing my invention in use for the terret, and also for the jockey-screws. Figs. 2, 3, and 4 are enlarged detail sections of the nut-boxes shown in Fig. 1. Figs. 5 and 6 show a modified form of my nut-box, having only one screw. Figs. 7 and 8 show another modification without any screws. Fig. 9 shows the stays or ribs on the upper plate instead of on the lower plate, as shown in Fig. 6.

My invention is for a nut-box to receive the nuts of terrets; jockey-screws, or other changeable mountings for harness-pads; and consists of two small metal plates adapted to receive and retain the nut, and prevent its turning, and having a flange on one of the plates for pressing the leather socket up to the pad. These two plates, secured together in any suitable way, (several of which are shown in the drawing,) constitute a nut-box, so that in a finished pad in which they are used it is easy to remove the upper plate, take out, and change the nut.

In the drawing, *a* shows the pad-frame; *b*, the jockey; *c*, the socket, or under leather; *d*, the terrets; *e*, the lower or jockey screws; *f, f'*, the upper and lower nut-plates, which compose the nut-box. *g* are small screws, used for securing the ends of plates *f, f'*. *h* is a tongue, and *i* is a loop on end of plates *f* and *f'* respectively, as a fastening in lieu of screws *g*. *n* is the nut or burr which is to be held by the nut-boxes. *o, o'* are ribs or flanges on the under or upper sides, respectively, of plates *f* and *f'*, to prevent the turning of nut *n*, which fits between said ribs. In Fig. 2 a flange, *o'*, for this purpose, is formed by bending or casting at the outer edge of plate *f'*. *s, s* are points or teats on the under side of plate *f*, taking into a dent in top of nut-plate *n*, to serve in

keeping the nut down in its place. *v* shows a knob or extra thickness of the plates *f'*, so as to give a deeper tap for screws *g*.

In the use of my invention I first cut out a suitable opening in the leather socket *c*, of about the shape and about a quarter of an inch smaller all around than the lower plate *f'*, so that when the plates are inserted the flange of this plate will extend beyond the opening, and clasp against the socket, so as to press it up against the frame.

When I use a nut-box, as shown in Figs. 1 and 2, both plates are larger than the opening in the socket, and clasp the edges of the opening, as is shown at *x*. The lower plate *f'* is applied under the opening. The nut *n* is inserted from the top. Plate *f* is put upon it, and secured in place by screws *g, g*.

The plates shown in Fig. 5 have only one screw, *g*, their other ends being secured by the tongue *h* and loop *i*. The point of the tongue is inserted in the loop, and the two plates brought together and secured by the screw *g*, as shown in Fig. 5.

When I use the modification shown in Figs. 6, 7, 8 the longer tongue *h* is first inserted in the loop, and then moved laterally until the shorter end can be inserted in the other loop. The two plates are then brought into proper position, and, when the pad is finished, are kept in place by the tension of the terret-screws or jockey-screws. The plates *f, f'* partially or wholly clasp the leather. The ribs *o* on either the upper or lower plate prevent the turning of the nut *n*. The flange *o'* answers the same purpose.

In order to change mountings in a pad provided with my invention the terrets and screws are removed and the jockey lifted up. Then, by taking out screws *g, g*, or moving to one side the tongued plates *f*, the upper plate *f* can be removed easily, and the old nut be taken out and another be inserted. Then the plate, jockey-screws, and terrets can be replaced without any difficulty.

The under plate *f'* is sometimes provided with an opening in the center, for the passage of the end of a long terret-shank, as shown in all the figures in section, except Figs. 2 and 4.

I claim—

1. A nut-box for harness-pads, composed of

two adjustable plates, $f f'$, constructed and operating substantially as and for the purposes set forth.

2. In a nut-box, plate f or f' , with hook h and loop i , substantially as set forth.

3. In a nut-box, separable plate f or f' , with ribs o or o' , substantially as set forth.

4. In a nut-box, plate f , with teats $s s$, substantially as set forth.

5. In a nut-box, plate f' , with an opening in the center, substantially as set forth.

6. In a nut-box, plate f' , with knob v , substantially as set forth.

In testimony that I claim the above invention I have hereunto set my hand this 26th day of October, 1875.

NOBLE TEAS.

In presence of—

A. J. DE LACY,

V. C. CLAYTON.